FIG. 1

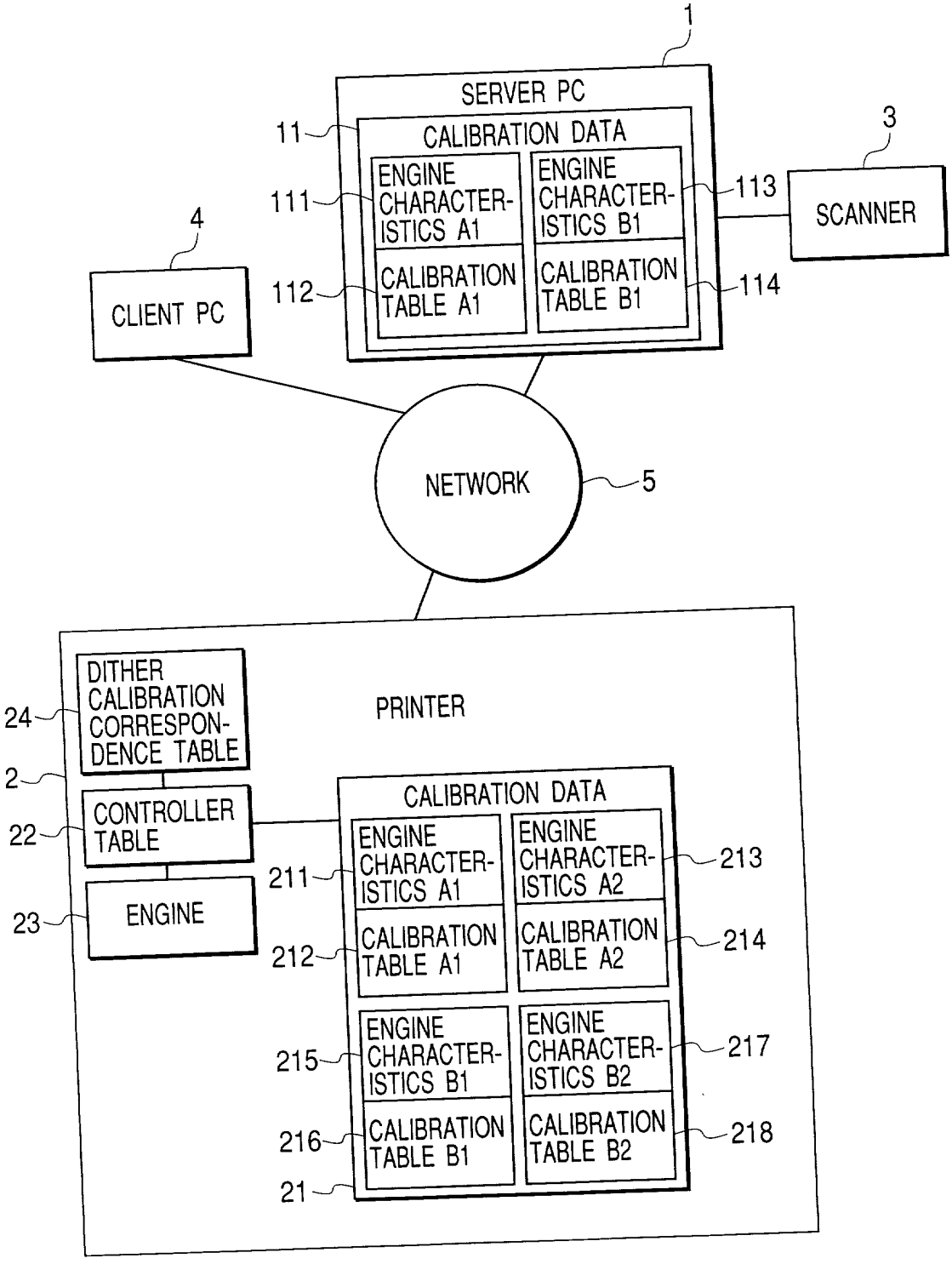

1
SERVER PC
11
CALIBRATION DATA
ENGINE CHARACTER-ISTICS A1
ENGINE CHARACTER-ISTICS B1
111
113
CALIBRATION TABLE A1
CALIBRATION TABLE B1
112
114
3
SCANNER
4
CLIENT PC
NETWORK
5
PRINTER
DITHER CALIBRATION CORRESPON-DENCE TABLE
24
2
CONTROLLER TABLE
22
ENGINE
23
CALIBRATION DATA
ENGINE CHARACTER-ISTICS A1
ENGINE CHARACTER-ISTICS A2
211
213
CALIBRATION TABLE A1
CALIBRATION TABLE A2
212
214
ENGINE CHARACTER-ISTICS B1
ENGINE CHARACTER-ISTICS B2
215
217
CALIBRATION TABLE B1
CALIBRATION TABLE B2
216
218
21

FIG. 2

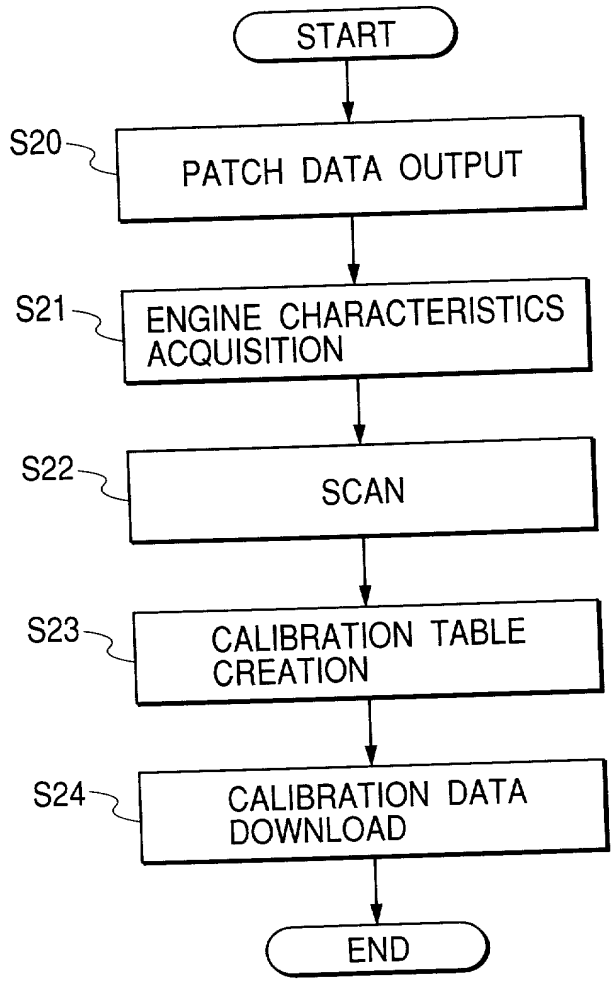

START
S20
PATCH DATA OUTPUT
S21
ENGINE CHARACTERISTICS ACQUISITION
S22
SCAN
S23
CALIBRATION TABLE CREATION
S24
CALIBRATION DATA DOWNLOAD
END

FIG. 3

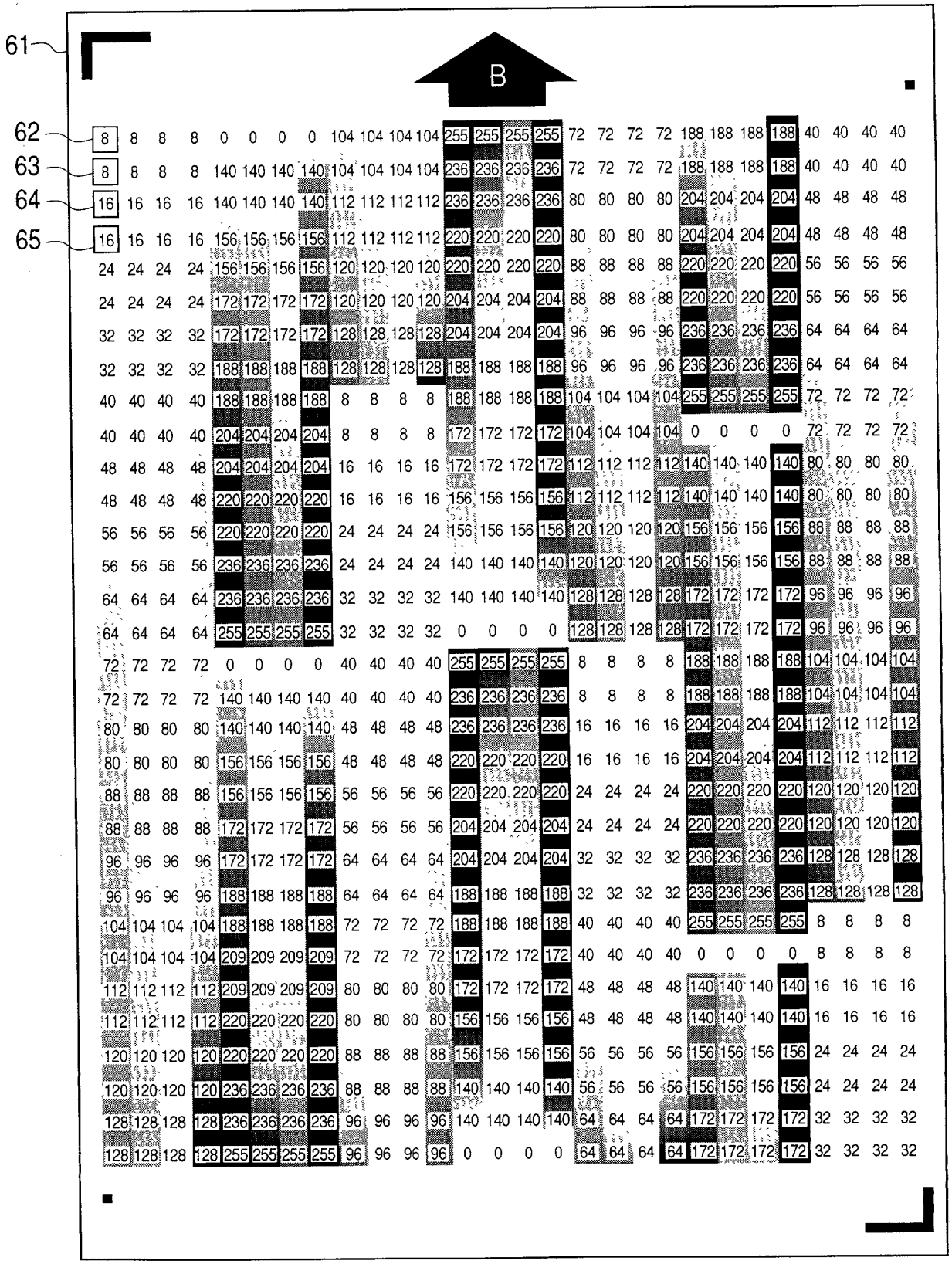


FIG. 4A

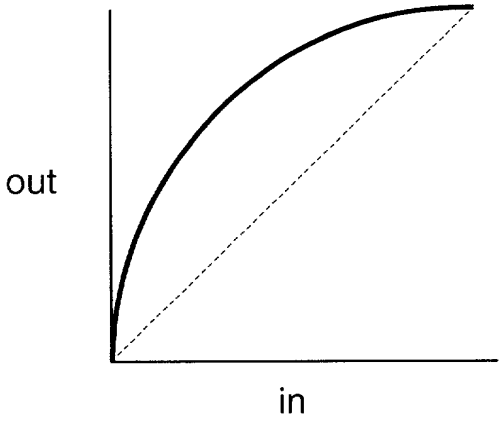


FIG. 4B

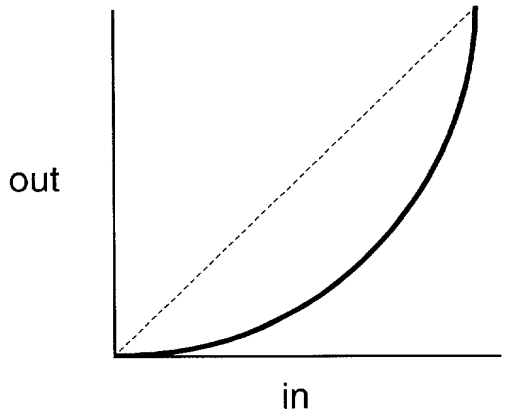


FIG. 4C

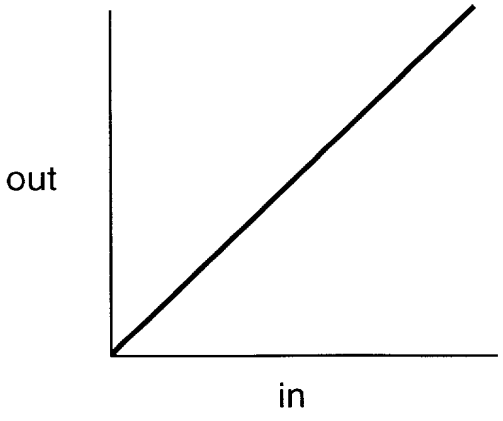


FIG. 5A

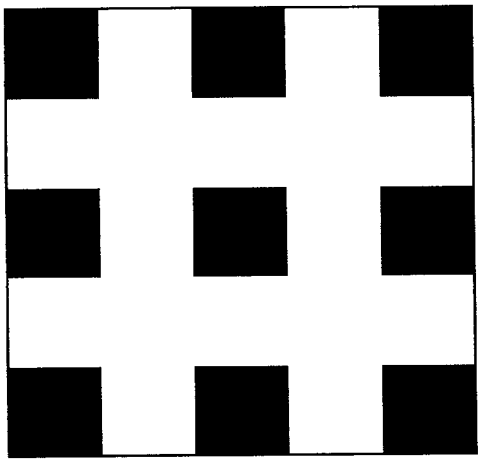


FIG. 5B

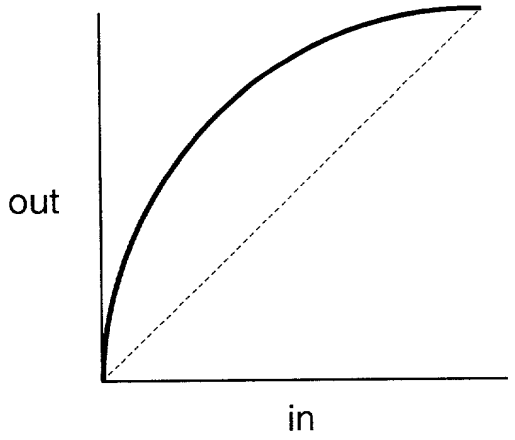


FIG. 5C

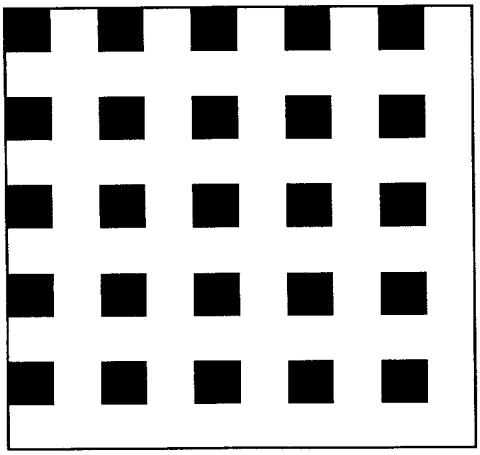


FIG. 5D

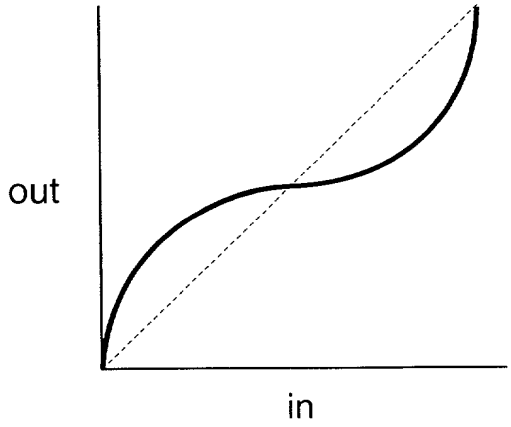


FIG. 6A

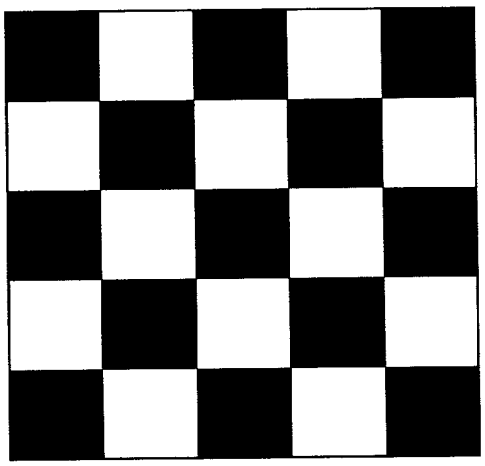


FIG. 6B

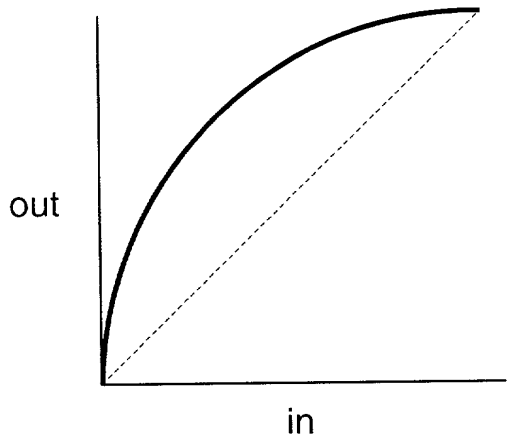


FIG. 6C

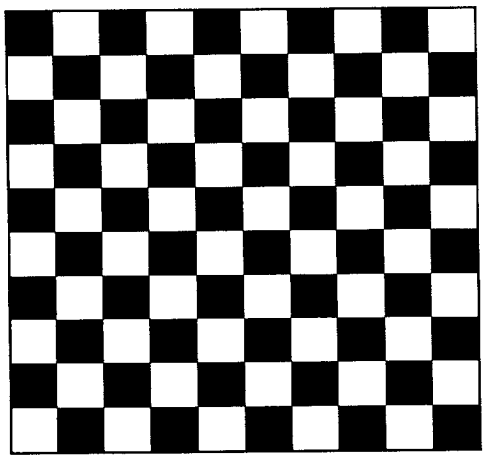


FIG. 6D

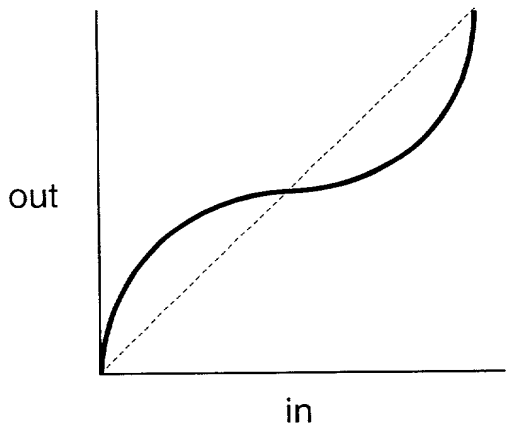


FIG. 7

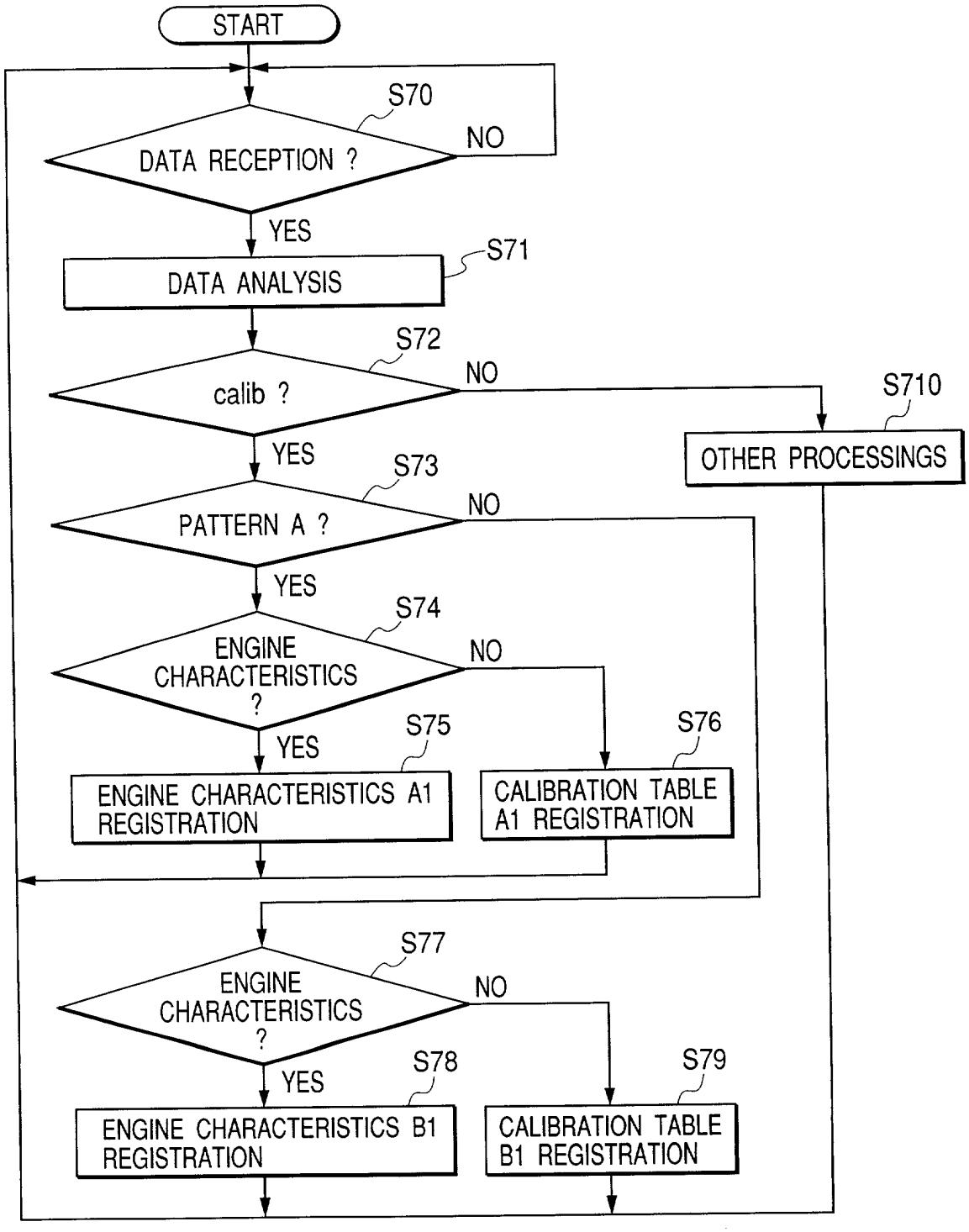

START
S70
DATA RECEPTION ?
NO
YES
S71
DATA ANALYSIS
S72
calib ?
NO
S710
OTHER PROCESSINGS
YES
S73
PATTERN A ?
NO
YES
S74
ENGINE CHARACTERISTICS ?
NO
YES
S75
ENGINE CHARACTERISTICS A1 REGISTRATION
S76
CALIBRATION TABLE A1 REGISTRATION
S77
ENGINE CHARACTERISTICS ?
NO
YES
S78
ENGINE CHARACTERISTICS B1 REGISTRATION
S79
CALIBRATION TABLE B1 REGISTRATION

FIG. 8

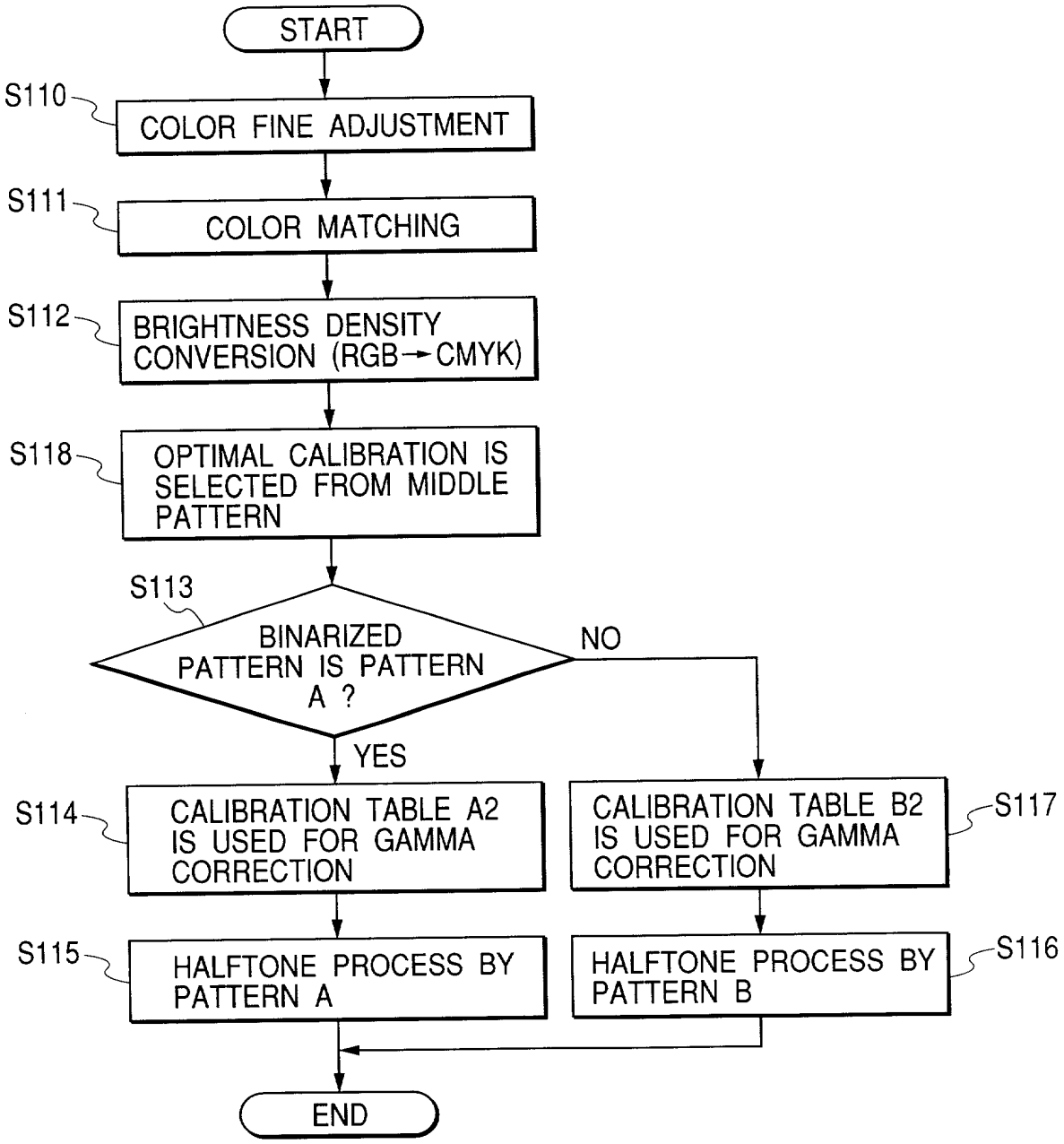

START
S110
COLOR FINE ADJUSTMENT
S111
COLOR MATCHING
S112
BRIGHTNESS DENSITY CONVERSION (RGB→CMYK)
S118
OPTIMAL CALIBRATION IS SELECTED FROM MIDDLE PATTERN
S113
BINARIZED PATTERN IS PATTERN A ?
NO
YES
S114
CALIBRATION TABLE A2 IS USED FOR GAMMA CORRECTION
S117
CALIBRATION TABLE B2 IS USED FOR GAMMA CORRECTION
S115
HALFTONE PROCESS BY PATTERN A
S116
HALFTONE PROCESS BY PATTERN B
END

FIG. 9

HALF TONE PATTERN	A	B	C	D
OPTIMAL CALIBRATION TABLE	CALIBRATION TABLE A	CALIBRATION TABLE B	CALIBRATION TABLE A	CALIBRATION TABLE B

FIG. 10A

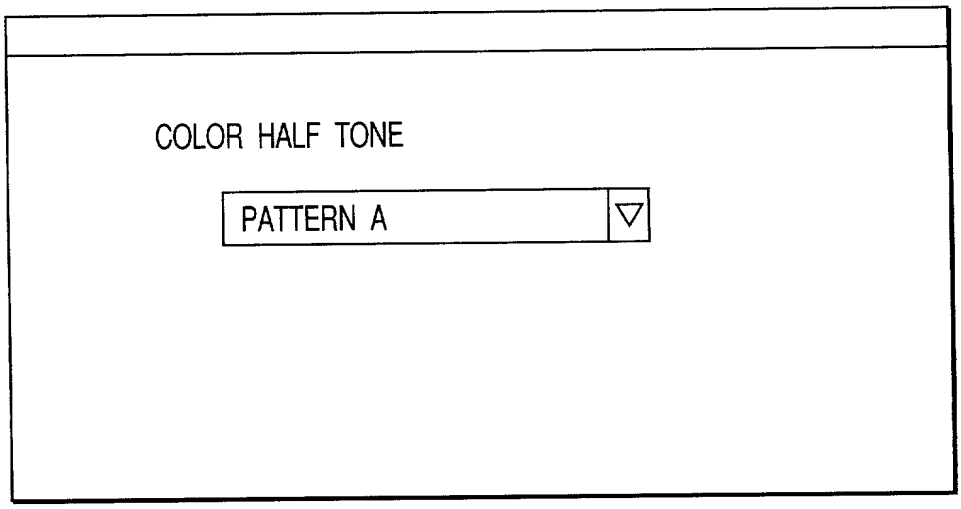


FIG. 10B

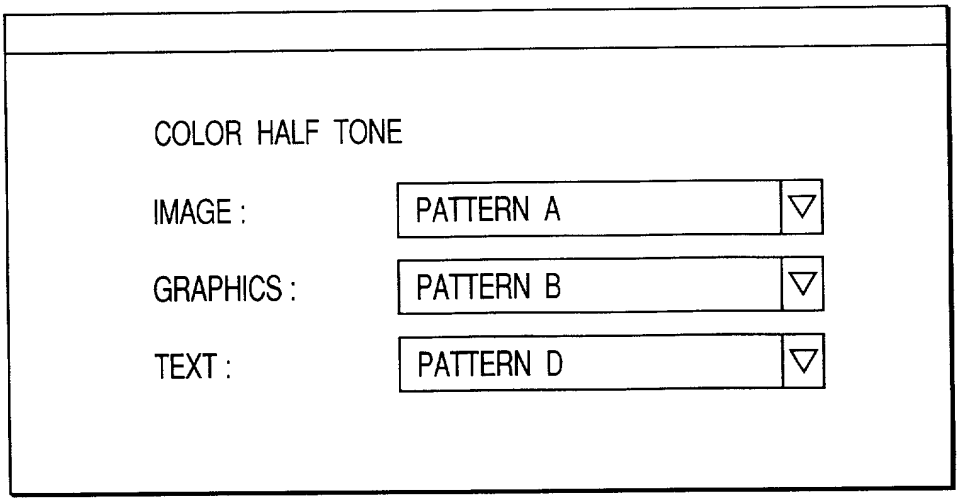


FIG. 11

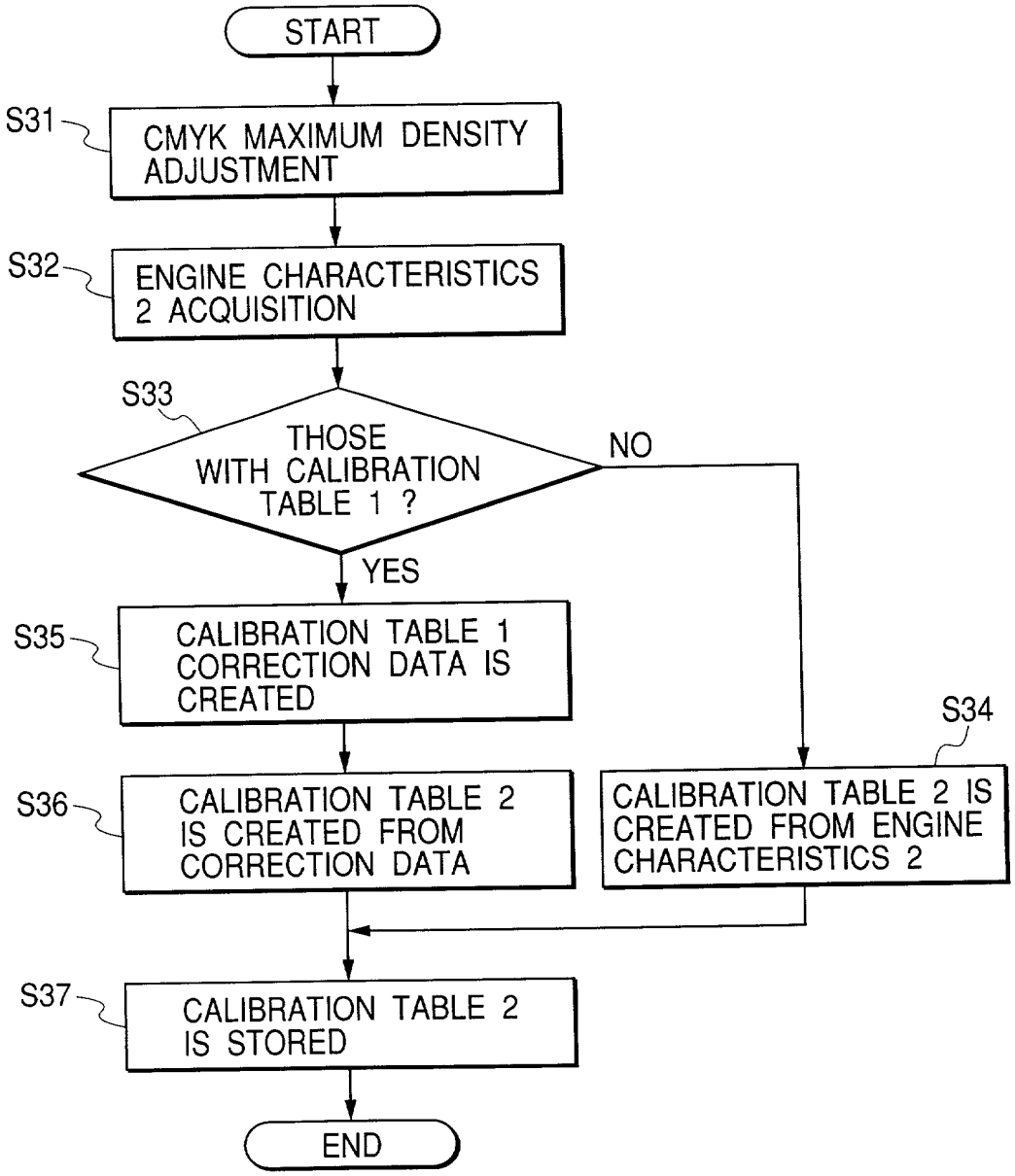

START
S31
CMYK MAXIMUM DENSITY ADJUSTMENT
S32
ENGINE CHARACTERISTICS 2 ACQUISITION
S33
THOSE WITH CALIBRATION TABLE 1 ?
NO
YES
S35
CALIBRATION TABLE 1 CORRECTION DATA IS CREATED
S34
S36
CALIBRATION TABLE 2 IS CREATED FROM CORRECTION DATA
CALIBRATION TABLE 2 IS CREATED FROM ENGINE CHARACTERISTICS 2
S37
CALIBRATION TABLE 2 IS STORED
END

FIG. 12

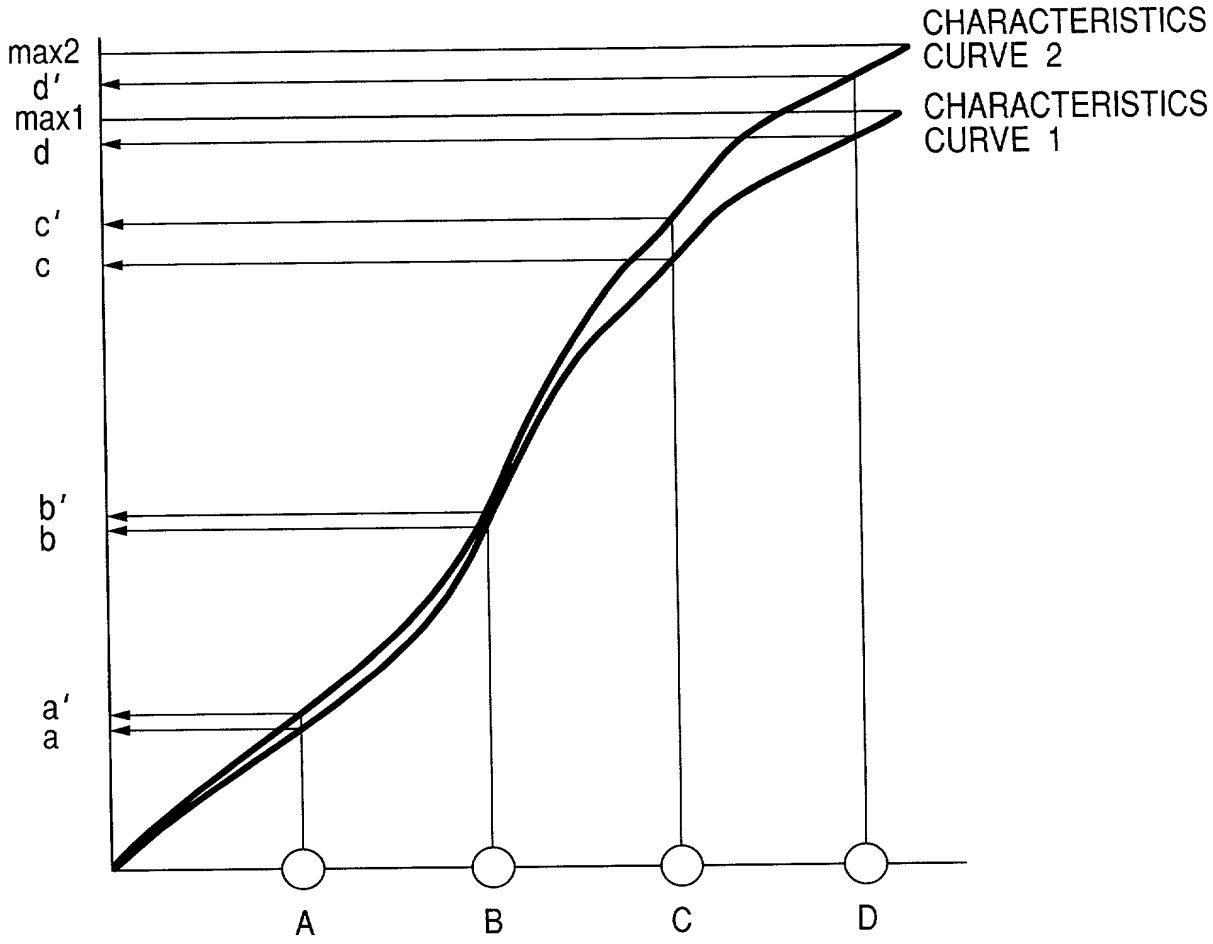

CHARACTERISTICS CURVE 2
CHARACTERISTICS CURVE 1
max2
d'
max1
d
c'
c
b'
b
a'
a
A
B
C
D

FIG. 13A

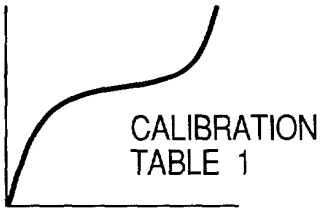
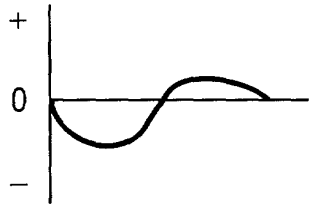


FIG. 13B

C, M, Y, K MAXIMUM DENSITY ADJUSTMENT
ENGINE CHARACTERISTICS 2 ACQUISITION

FIG. 13C

CALIBRATION TABLE
CORRECTION DATA
= ENGINE CHARACTERISTICS 2
−ENGINE CHARACTERISTICS 1



MARGE

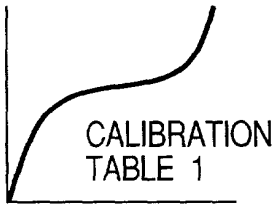


FIG. 13D

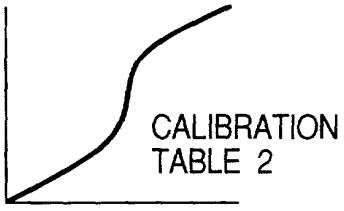
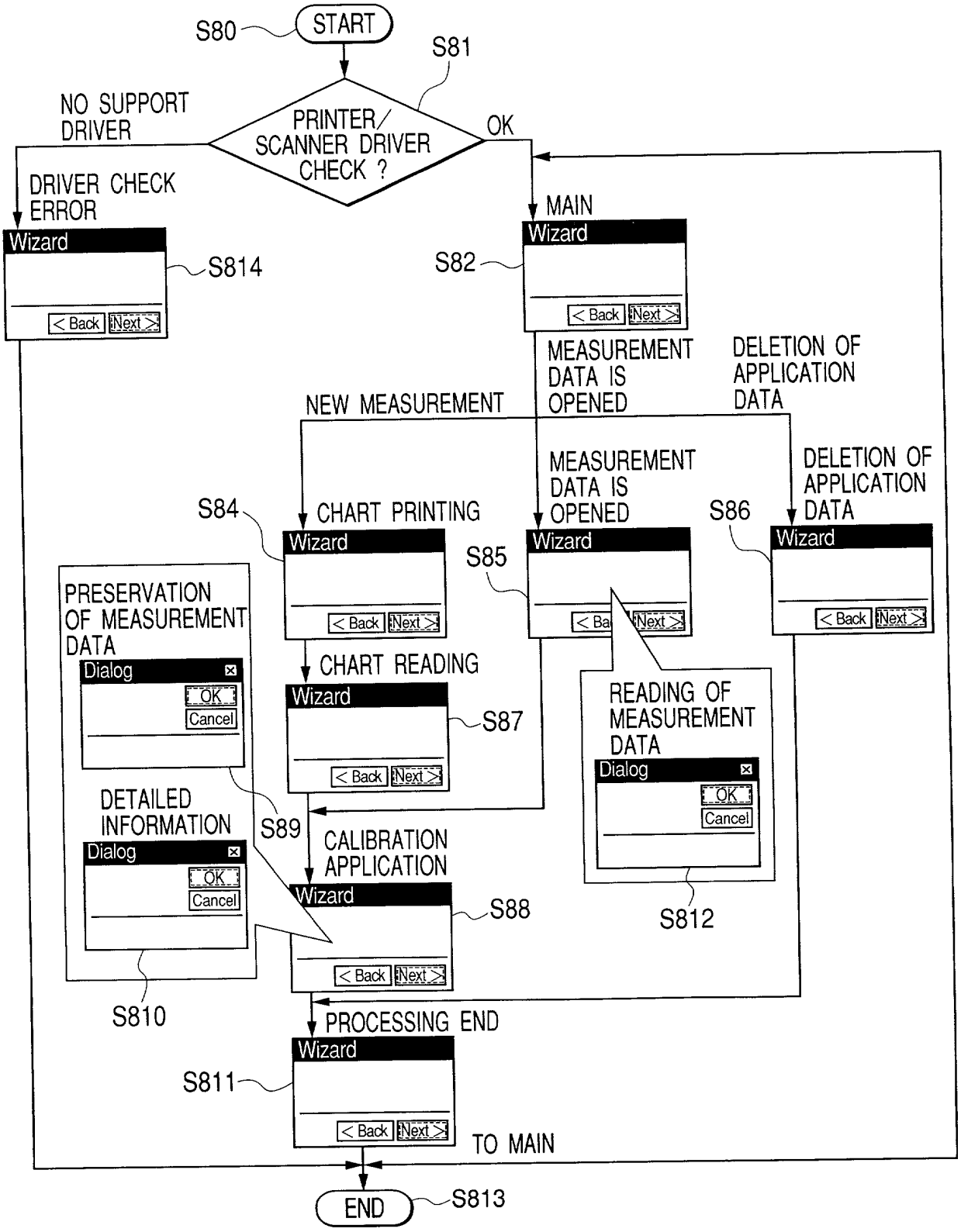


FIG. 14


S80
START
S81
PRINTER/ SCANNER DRIVER CHECK ?
NO SUPPORT DRIVER
OK
DRIVER CHECK ERROR
MAIN
Wizard
S814
S82
< Back
Next >
MEASUREMENT DATA IS OPENED
DELETION OF APPLICATION DATA
NEW MEASUREMENT
MEASUREMENT DATA IS OPENED
DELETION OF APPLICATION DATA
S84
CHART PRINTING
S85
S86
PRESERVATION OF MEASUREMENT DATA
Dialog
OK
Cancel
CHART READING
S87
READING OF MEASUREMENT DATA
DETAILED INFORMATION
S89
CALIBRATION APPLICATION
S88
S812
S810
PROCESSING END
S811
TO MAIN
END
S813

COPIED BY APPLICANT

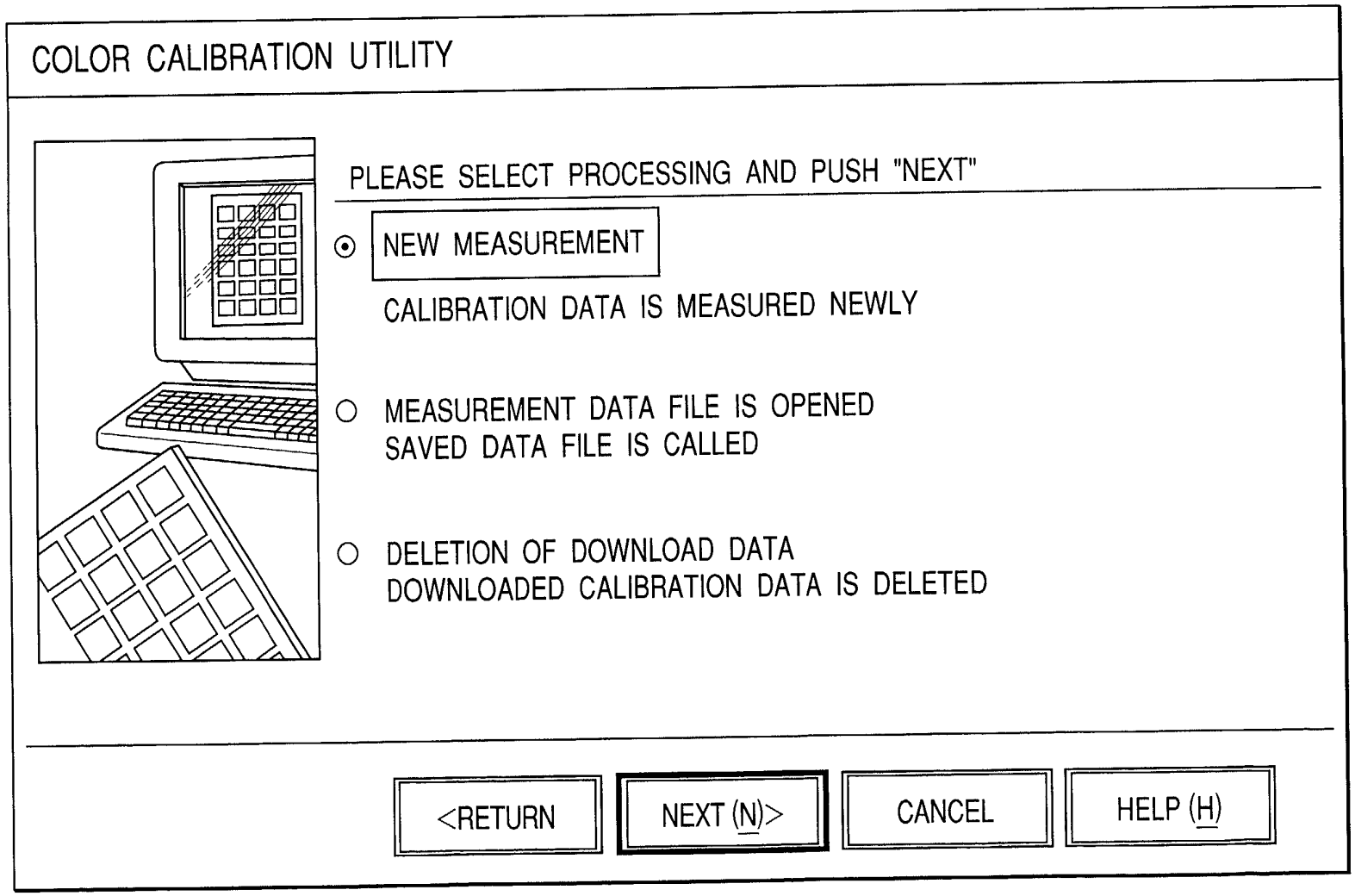



FIG. 15